

2 Williams Street
Chelsea, MA 02150
(617) 889 - 6515



QUALITY CERTIFICATE

Vessel	"Energy - 11104"	Port	Boston, MA	Report	115206
Customer	Sprague Energy	Date	November 30, 2006	Reference	
Operation	Analysis	Terminal	Sprague Quincy	Sample #	867387

Name of material being tested
Description of sample source
Samples Drawn by (company)
Samples Tested by (company)

0.5% No 6 Fuel Oil

Shore tank # 11 After Discharge

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Tests being Performed	Test method	Sample Results		
Gravity API @ 60F / Denisty	D - 4052	12.8	/	0.9803
Flash Point, PMCC, F	D - 93		>230	
Viscosity cSt @ 122F	D - 445		215.9	
Viscosity SSF @ 122F	D - 2161		102.2	
Pour Point C / F	D - 97		12 / 54	
Sulfur , Wt%	D - 4294		0.440	
Water and Sediment, Vol %	D - 1796		0.02	
Sediment by Extraction, wt%	D - 473		0.05	
Water by Distillation, Vol%	D - 95		0.1	
Gross Heat of Combustion, BTU / lb	D - 240		18,640	
Gross Heat of Combustion, BTU / gal	D - 240		152,224	
Ash, wt %	D - 482		0.060	
Vanadium, ppm	D - 5863B		7	
Sodium, ppm	D - 5863B		6	
Nitrogen, wt%	D - 5762		0.302	
Ashphaltenes, wt%	IP - 143		0.46	
Conradson Carbon Residue	D - 189		2.95	
<p>SPRAGUE PROVIDES THE ATTACHED INSPECTION REPORT/ANALYSIS REPRESENTING THE SPECIFICATIONS OF THE PRODUCT AT THE SPRAGUE TERMINAL IN TANK ON THE DATE OF INSPECTION NOTED ON THE CERTIFICATE. THIS ANALYSIS IS PROVIDED TO THE CUSTOMER FOR THE PURPOSE OF ESTABLISHING THE INDEPENDENTLY VERIFIED PRODUCT SPECIFICATION ON A COMPOSITE BASIS IN SPRAGUE'S TERMINAL SHORE TANK AS NOTED ON THE CERTIFICATE. THE INSPECTION REPORT IS NOT TO BE USED FOR ANY OTHER PURPOSE. SPRAGUE DISCLAIMS ANY LIABILITY FOR THE PRODUCT AFTER DELIVERY BY SPRAGUE TO CUSTOMER. SPRAGUE DISCLAIMS ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR AN INTENDED USE EXCEPT AS MAY BE SPECIFICALLY SET FORTH IN WRITING IN ANY CONTRACT OR TERMS OF SALE BETWEEN SPRAGUE AND A BUYER OF PRODUCT. SPRAGUE ASSUMES NO LIABILITY FOR CLAIMS OR LOSSES THAT MAY ARISE FROM CUSTOMER'S USE OF THIS INSPECTION REPORT/ANALYSIS.</p>				

** Annotates Analysis Contracted Out

*** Annotates Loadport information- this test was not performed by Inspectorate